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SOIL CONSERVATION SERVICE U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

UTAH STATE DEPARTMENT of NATURAL RESOURSES
-- DIVISION of WATER RIGHTS

OCT. 1, 1979

### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STA	ATE			ADDRESS

Alaska Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504

Arizona Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025

Colorado (N. Mex.) P. O. Box 17107, Denver, Colorado 80217

Idaho Room 345, 304 N. 8th. St., Boise, Idaho 83702

Montana P. O. Box 98, Bozeman, Montana 59715

Nevada P. O. Box 4850, Reno, Nevada 89505

Oregon 1220 S. W. Third Ave., Portland, Oregon 97204

Utah 4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138

Washington 360 U. S. Court House, Spokane, Washington 99201

Wyoming P. O. Box 2440, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.



## WATER SUPPLY OUTLOOK FOR UTAH

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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In Cooperation with

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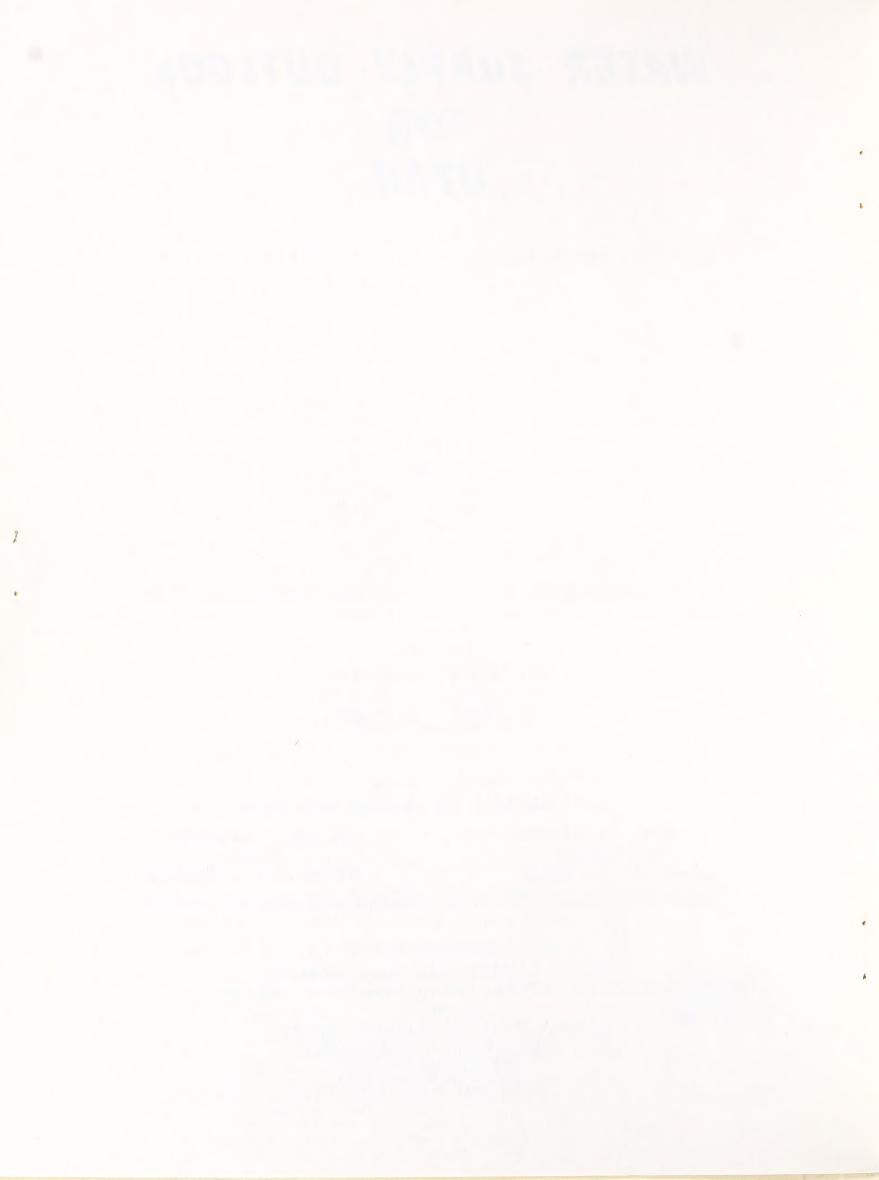
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## WATER SUPPLY OUTLOOK

SUMMARY

as of

October 1, 1979

\* Utah's 1979 water supply ranged from "below \* average" for some water users in Uintah \* Basin to "above average" for most water \* users in southern Utah. A very dry summer \* caused less streamflow than expected in \* the northern 2/3 of the state. Reservoir \* storage is near average statewide, but some \* are only about 1/2 average. Fall soil \* moisture is very dry.

A very dry summer resulted in less May-July streamflow than was forecast on the 1st of May. Provisional flow measured by the U.S. Geological Survey indicates flow in Northern Utah were 10 to 35% less than forecast while those in southern Utah were generally higher than the flows forecast. The extremes were 32% of average on Chalk Creek near Coalville and almost 10 times average for the inflow to Minersville Reservoir on the lower Beaver River.

Reports indicate that some secondary water rights in Uintah Basin received reduced water supplies by about mid season and will have below average carry over. Water users in southern Utah had an abundant water supply and have good reservoir carry over this fall.

Summer precipitation at mountain stations ranged from 4 to 80% of average and watershed soils are very dry. Several good rains are needed before snow falls to prime these soils to make them ready to assist next springs runoff.

The following table is a comparison of forecasts made on May 1st with provisional flow measured by the Geological Survey.

## WATER SUPPLY OUTLOOK

molecular control	Forecast	May 1 Forecast	Measured Flow for the Period
Station	Period	(1000 A. F.)	(1000 A. F.)
BEAR RIVER			
Bear nr Ut-Wyo. State Line Bear nr Woodruff Bear nr Randolph Logan nr Logan (combined) Little Bear nr Paradise Blacksmith Fk nr Hyrum	May-July May-July May-July May-July May-June May-July	90 100 62 96 25 35	82.1 52.2 25.9 81.1 18.8 29.5
WEBER-OGDEN RIVERS			
Farmington nr Farmington Chalk Creek at Coalville East Cyn. Creek nr Morgan Lost Creek nr Croydon Pineview Reservoir Inflow South Fk Ogden nr Huntsville Weber nr Oakley American Fk nr American Fk Provo nr Hailstone	May-July May-June May-June May-June May-June May-June May-June May-July May-July	7.0 16.5 15.4 15.0 82 45 78 29	6.1 10.7 11.4 10.9 74.7 41.9 76.2
JORDAN RIVER AND SALT LAKE			
Big Cottonwood nr Salt Lake Parley's Creek nr Salt Lake	May-July May-July	34 10.9	
DUCHESNE RIVER			
Ashley nr Vernal Flaming Gorge Inflow Lakefork below Moon Lake Uinta nr Neola Whiterocks nr Whiterock Yellowstone nr Altonah	May-July Apr-July May-July May-July May-July May-July	60 1,200 72 88 60 66	37.8 781 52.1 56.5 41.6 45.6
MUDDY CREEK			
Muddy Creek nr Emery	May-July	21	19.0
SAN RAFAEL RIVER			
Cottonwood Cr nr Orangeville Ferron Creek nr Ferron	May-July May-July	44	38.3 34.3

## WATER SUPPLY OUTLOOK (continued)

Station	Forecast Period	May 1 Forecast (1000 A. F.)	
UPPER COLORADO BASIN			
Colorado nr Cisco, Utah Green at Green River, Utah Lake Powell Inflow Mill Creek near Moab	Apr-July Apr-July Apr-July May-July	4,300 3,500 10,800 7.2	4,940 2,986 10,845 6.2
SEVIER RIVER			
East Fork Sevier nr Kingston Sevier nr Hatch Sevier nr Kingston Chicken Cr nr Levan	May-July May-July May-July May-July	30 82 52 2.8	44 71 64 7.4
BEAVER RIVER			
Beaver nr Beaver Minersville Inflow	May-July May-July	31 16	48.6 52.0

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH OCTOBER 1, 1979

Basin or Stream	RESERVOIR	Usable		Usable Storage	
DESIN OF STEET		Capacity	This Year	Last Year	Average
Bear River	Bear Lake	1421.0	956.9	959.7	1091.1
Dear Rever	Woodruff Narrows	26.5	5.0e	14.5	12.0
	WOOdidii Naiiows	2003	3.00	14.5	12.0
Beaver River	Minersville (RkyFd)	23.3	10.1	5.5	5.2
Little Bear	Hyrum	15.3	5.9	7.1	8.7
	Porcupine	11.3	1.0	1.1	2.2
Ogden	Causey	6.9	1.1	1.9	1.66
	Pineview	110.1	58.2	70.5	57.7
Provo	Deer Creek	149.7	80.4		100.9
Settlement Creek	Settlement Creek	1.2	0.0	0.4	
Deterement ofeck	Vernon Creek	0.6	0.1	0.1	
	VOLITOR OF CER	0.0	0.1	0.1	
Sevier River	Gunnison	18.2	0.1	3.7	3.6
	Otter Creek	52.5	35.0	8.3	18.7
	Piute	71.8	20.2	0.0e	13.4
	Sevier Bridge	236.0	65.0	23.2	66.3
Spanish Fork	Strawberry	270.0	149.2	150.2	149.0
Spanish Fork	Strawberry	270.0	147.2	130.2	147.0
Utah Lake	Utah Lake	883.9	584.7	628.3	569.8
Weber	East Canyon	48.1	25.0	31.1	25.3
eber	Echo	73.9	10.2	34.4	27.6
	Lost Creek	20.0	12.8	14.6	. 13.81
	Rockport	60.9	43.7	51.9	44.4
	Willard Bay	193.3	165.1	165.2	145.9
Aghlay Crack	Ctainalas	22.2	10.1		16 /
Ashley Creek	Steinaker	33.3	10.1		16.4
Colorado	Blue Mesa	829.5	710.0	727.8	
	Lake Powell	25002.0	21637.0	16563.0	
Green	Flaming Gorge	3749.0	2572.0	2825.1	
Lakefork	Moon Lake	35.8		2.2	10.6
Price River	Scofield	65.8	41.2	39.4	34.0
San Juan		1696.0			
Jan Juan	Navajo	1020.0	1364.0	1237.0	
San Rafael	Huntington North	3.9	0.2		1.01
	Joe's Valley	54.6	36.9		38.61
	Mill Site	16.7	1.3	4.8	
				-	
Strawberry	Starvation	165.3	2.2		123.61
Uintah	Bottle Hollow	11.3			10.25
	b=less than 15 yrs.				



## UTAH PRECIPITATION DATA

## 1979 WATER YEAR

STATION NAME	UCTF	-DEC-	JANIDA	λ α.	FEBRUA	ARY	MARCH		APRIL		MAY		JUNE		JULY-S	EPT.	TOTAL
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EURGE PEA OLD HILL													/2	£	2 2	∞	6 .0 57 .0
AYDEN F	*	8 22	*	3 62	2/28	4.29	40/1	3.80	9617	1.50	5/30	2.20	6/58	. 41	12	3.01	7.0
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ILY LAKE													$\sim$		7	i.	0 * 4
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ALK CRE	12/3	-	/3	~	5/	M	13	7	3	CC.	/3	N)	12	*	2/6	Φ,	8.1
ALK CRE	1/0	7.	/3	6.	6/	α:	0 /	~	2	α0	5	-	/2	n:	9/5	9	6.3
/ BPEAD	12/2	-	/3	9	5/	~	7	-	5	Q.	5/29	7.	62/9	06.	10/03	20 7	30,53
PMINGTO	12/21	A . 32	1/30	6.16	2/27	4.12	3/26	3,51	4/25	6		1 80					
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FRANCIS CANYON																	18.32
LUDERS															0/1		7.1
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INGL MIL FL													72	5,5	12	6.	9.5

NOTE: BLANK SPACES TUDICATE NO READING TAKEN, NEXT READING TS CUMULATIMS(EXCEPT AS NOTED \*) \*: GAGE WOLESTED, DATA FOR THIS PERIOD LOST

## UTAH PRECIPITATION DAT

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1979 WATER YEAR

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## UTAH PRECIPITATION DATA

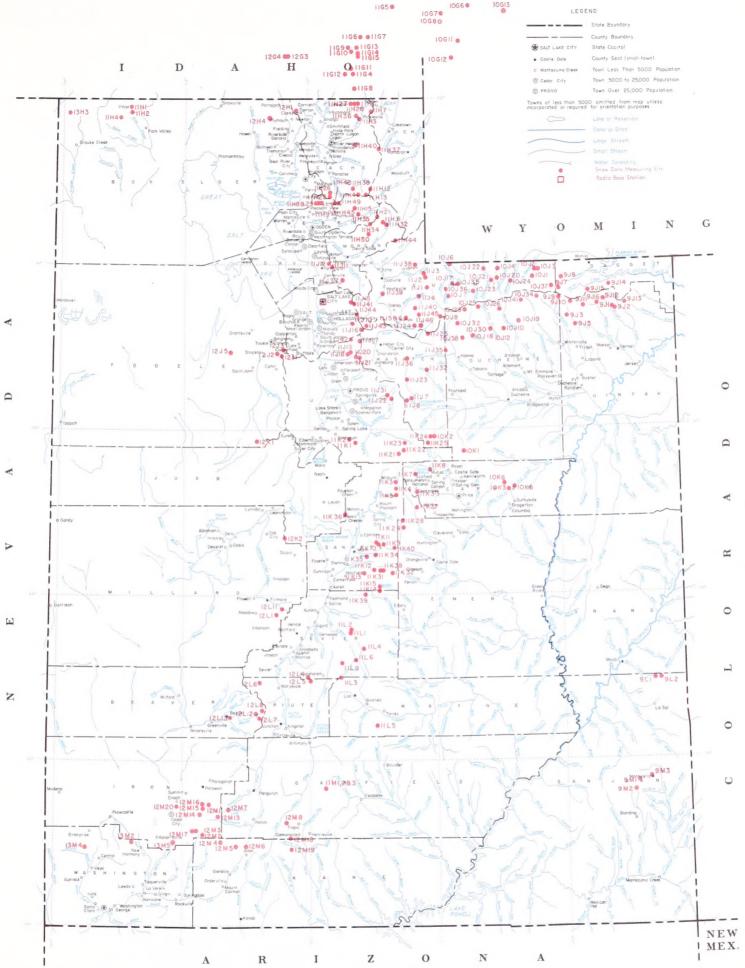
## 1979 MATER YEAR

JACKSON PARK			2/02	10.62	12/2	2.43			4/54	5.80						14.9	ν
7 Z 4	12/31	6.10	1/31	1.90	2128	1.70	3/31	06.5	02/7	1.80	5/31	2.30	6/30	00.	- M N	2.80	# # # # # # # # # # # # # # # # # # #
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OK CREEK ADOW LAKE	1/05	6.31	20/2	5.92	2127	1.92	60/1	2.71		00.	5/24	1.74	6/21	.02	15	6	10 e
SPIRIT LAKE STEEL CRK PARK TPOUT CREEK	12/30	5.30	1/30 1/26 1/30	9.64 2.80 7.97	2/28 2/28 2/28	2.76	*/31	2.40	4/26	6.18 3.30 1.00	5/31	3.40	12/9	1.40	9719 9729 9718	7.85 3.00 3.40	25.93
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BOX CREEK Castle Valley	12/26	9.40	1/30	4.50	2/26	3.40	3/26	V. V.	4/30	4.72	5/30	2.28	1/06	00°	* * 9/28	2.25	57.78

## TAH PRECIPITATION DAI

## 1979 WATER YFAR

TOTAL	57.68 28.09 50.72 17.94	2010	7.0	86.00 80.00 80.00 80.00 80.00	ν = 3 ν α ν	. o.	41.40 28.60 27.90 27.45 34.63
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MAY	5/30 6/01 6/01	6/01 6/01 5/29	5/29 5/30	5/30	SW K	5/30	* 5/30 * 5/30
	6.01 8.01 8.00 8.00	- 0 M		ທີ່ ວັດ	8.11	0 H S	1.50 1.50 1.50 3.88
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ARY	5.70 3.70 4.50 1.850	i m co ni		4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 .	- in - 4	5.50 A N T	6.50 3.00 2.70 4.40 7.60 3.15
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JANUARY	2/02 1/30 1/30 1/30	1/30	2 / 3	1/30	in h	1/30 6 I M	1/31 2/05 2/05 1/29 1/30
	13.60 7.60 3.15 4.60	in ac un	. 3	9.10 8.71 8.10		11.35 V I R	15.70 10.90 10.35 5.95 16.48 6.25
0010E	1702 12728 12726 12726	2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	2/2	12/27	1 0 C	12/28 E K	12/51 1/05 1/05 1/05 12/28 1/03
STATION NAME	DUCK CREEK FARNSWORTH LK GRRC HEADUTAS GRRC MAJURS GBRC MEADOWS	AC DAKS USEBERRY TUP WIN WBERLY MI	A M M RCHANT DWAY V	BALDY F K CREEK NGUJICH CKIE JEG	7		KULDB CRYSfal LITTLE GRASSY LONG FLA1 TALL POLES WEBSTER FLAT YANKEE RESVR



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1978 ALBERS EQUAL AREA PROJECTION

# INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

	ELEV.	8,730 10,400 10,400 10,400 9,400 9,400	000 000 000 000 000 000 000 000 000 00	8,480 7,900 7,900 7,900 8,600 9,100 7,550	9,400 8,700 7,200 9,200	10,000 7,950 8,900 9,000	9,200 9,200 9,400 9,800	8,850	8,800 9,850 7,050	9,500	9,250	
	RGE.	(conti 216 176 166 186 176 136 206 206	4% 4% 4% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	11 W 14 E 13 E 13 E 13 E 13 E 18 E 18 E 18 E 18	25 4 E 6 6 E 6 6 E 6 6 E 6 6 E 6 6 E 6 6 E 6 6 E 6 6 E 6 6 E 6 E 6 6 E 6 6 E 6 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E 6 E	5 E E E E E	4E 35 4E	1E 2E 22E	226 246 246 236	222	W6 W6	é
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		(above						DRAIR				example) ion Gage. ure Station and Ae Station and Ae Station and Pr Gage. Snow Pl
	NAME	G REEN RIVER IN UTAH King's Cabin (upper) Middle Beaver Creek Sprint Lake Sprint Lake Trout Creek Windy Park	A twood lake Brown Duck Ridge Chepeter—Writherocks Lakes Chrant Creek Courrant Creek Courrant Creek Courrant Creek Courrant Creek Indian Conyon Jackson Park Kidney Lake Kidney Lake Lidge fork Browntain Lake fork Browntain Lake fork Browntain Claef fork Mountain Claef fork Creek Shaddwa Lake	West Fork of the Duchesne PRICE RIVER Corrol Day Valley Divide Grossy Trail Creek-Left Fork Mud Creek Trimberline White River #1 White River #2 White River #2 White River #2	SAN RAFAEL RIVER Buck Flor Gooseberry Keservoir Huntingon-Horseshoe Rod Pine Ridge	Rush Pand Seeley Creek Stuart R.S. Upper Joe's Valley Wrigley Creek	Black's Fork Dill's Camp FREMONT RIVER Black's Flat-U.M. Creek Donkey, Reservoir	Fish Lake Johnson Valley SOUTHEASTERN UTAH Buckboard Flat	Camp Jackson LaSal Mountain LaSal Mountain (upper) Monticello Park	ESCALANTE RIVER Widtsoe-Escalante Summit Widtsoe-Escalante #3 Widtsoe-Escalante #3	VIRGIN RIVER Kolob-Crystal Long Valley Junction Webster Flat	Numbering System Numbering System Show Course Only-Fugiliar Show Course and Short Interpretation Show Course and Assistance of Short Interpretation Show Course and Assistance of Short Interpretation Show Course, Soil Prosture Show Course, Short Interpretation Show Course Short Interpretation Show Course Short Interpretation Show Course Precipitation Show Course Precipitation
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	ELEV.	7, 800 6, 100 8, 5,500 8, 9,960 9,960 6, 450	7,7,000 7,900 7,900 8,725 9,700 9,700 9,700 1,700 1,700 1,400 1,400 1,400	9, 800 9, 100 9, 100 10,000 10,000 10,000	8 7 500 8 7 7 600 7 8 7 7 600 8 7 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8	6,020 10,290 8,750 9,600	8,100 8,800 8,700	6,100	5,800			10,500 9,330 9,330 7,700 10,600 9,100 10,250 8,640
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	NAME	TAH LAKE	.)1 Canyon by) IVER (South of	RIVER (Includin	Creek	(upper)	PAROWAN CREEK Birch Crossing Birch Hessing Birch Holes Toll Poles Yonkee Reservoir	ENTERPRISE TO NEW HARMONY DRAI Little Grassy Creek Long Flat	COAL CREEK Cedar City Golf Course SUSC Ranch		VER DRAINAGE UPPER GREEN RIVER IN UTAB	Ashley Twin Lokes Black's Fork G.SEast Fork Black's Fork Junction Black Painte Burk Rainte Grizzly Ridge Henry's Fork Herwind G.S. Hickerson Park Hickerso
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		oove Har	e low									H LAKE
GREAT BASIN DRAINAGE	NAME	UPPER BEAR RIVER (above Harer, Big Park, Burts-Attlier Ranch CCC Camp × CCC Camp × Cold Hill Cold Hill Ranger Station Lily Lake Monte Cristo R.S. Poison Mandows x. Poison Mandows x. Soft River Summit × Styder Basin x.	on outh)	Little Bear (lower) Little Bear (lower) Little Bear (lopper) Oxford Mountain Oxford Mountain Steep Hollow #1 Steep Hollow #2 Strawberry Creek Strawberry Creek Tony Grove Lake Tony Grove Lake Tony Grove Ranger Station Willow Flat	RAFTRIVER Clar Creek Meadows George Peak One Mile Summit ViPont	Beover Creek-Skunk Greek Ben Lomond (lower) Gausey Dam Chiler (creek Dry Bread Pand Dry Bread Pand	Andate Fork Ogden Powder Mountain Hideoway Powder Mountain Sundown Sagebrush Flat WEBER RIVER	Beaver Greek R.S. Chalk Greek #1 Chalk Greek #3 Chalk Greek #3 East Shingle Lee Farmington Canyon (lower)	Farmington (Canyon (upper) Francis Canyon Hardscrabble Horse Ridge Kilfoil Greek	Lost Creek Park City Summit Parley's Canyon Summit Pine Canyon Porcupine Porcupine	Redden Mine (upper) Sergeant Lakes Shingle Mill Flat Smith & Marehouse	PROVORIVER & UTAH Beover Creek Divide Camp Allanum Clear Creek Riage *2 Clear Creek Riage *3 Clear Creek Summit Publie Creek Packard Caryon Royson R. S. Rock Bridge
SASIN	STATE	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		-2222-	2222	222222		22222				ככככככככככ
GREAT E	NO.	10011 10J6P 10J36p 10J7PST 10J35p 11H12PST 10G6 10G8P	10.17P 11.1437p.S1T 11.1612 11.1612 11.1612 11.1674 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774 11.16774	11H26 11H26 11G3 11G5 11H27 11H27 11H28 11G10 11H36P5T 11G4P	13H2a 13H4PS 13H1 13H3a	11H14M 11H8PST 11H9PST 11H35P 11H29 11H13MPST 11H134P	111449 111448 111156	11J24 11J1PST 11J2MPST 11J3MP 11J45a 11J12P	11J11PST 11H44p 11J37p 11H21PST 11H31	111432P 11.143 11.115PST 11.138p	1139P 1139P 11340P 1134PST	11.146PST 11.120 11.K22PST 11.K22PST 11.K23 11.17P 11.122P 11.136 11.131

## Agencies Cooperating in Utah Snow Surveys

## U.S. GOVERNMENT AGENCIES

- U.S. Department of Agriculture Soil Conservation Service Forest Service
- U.S. Department of Commerce NOAA, National Weather Service
- U.S. Department of Interior
  Bureau of Reclamation
  Geological Survey
  National Park Service

## STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

Manti Salt Lake City

## ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

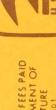
### PRIVATE AGENCIES

Kaiser Steel Corporation

UNITED STATES DEPARTMENT OF AGRICULTURE FEDERAL BLDG. -- ROOM 4420 125 SOUTH ST. SALT LAKE CITY, UTAH 84138 SOIL CONSERVATION SERVICE

OFFICIAL BUSINESS PENALTY FOR PRIVATE USE, \$300





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COOPERATIVE SNOW SURVEYS

domestic and municipal water supply, hydro-electric power water supply for irrigation, necessary for forecasting generation, navigation, Furnishes the basic data mining and industry

"The Conservation of Water begins with the Snow Survey"